



SEQUENCE LISTING

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PIPLANI, SUNILA
MERRILL, BARBARA MCEOWEN
SCHATZ, PETER JOSEPH

<120> COMPOUNDS HAVING AFFINITY FOR THE GRANULOCYTE-COLONY STIMULATING FACTOR RECEPTOR (G-CSFR) AND ASSOCIATED USES

<130> 0300-0014

<140> 09/620,091
<141> 2000-07-20

<160> 491

<170> PatentIn Ver. 2.1

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1 5 10 15

<210> 84

<211> 16

<212> PRT

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<400> 84

Gly Gly Gly Cys Asp Pro Trp Val Trp Tyr Asp Leu Cys Trp Cys Asp
1 5 10 15

<210> 85

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

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Tyr Thr Ser Cys Asp Pro Trp Ile Phe Phe Asp Arg Cys Met Ser Val
1 5 10 15

<210> 86

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Asp Pro Tyr Cys Asp Pro Trp Met Phe Phe Asp Gln Cys Ala Tyr Leu
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<210> 87

<211> 14

<212> PRT

<213> Artificial Sequence

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Arg Glu Phe Cys Asp Pro Trp Leu Trp Tyr Asp Arg Cys Leu
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<210> 88
<211> 16
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<220>
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1 5 10 15

<210> 89
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<220>
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Leu Val Phe Cys Asp Pro Trp Ile Tyr Tyr Asp Leu Cys Met Asp Thr
1 5 10 15

<210> 90
<211> 12
<212> PRT
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<220>
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<400> 90
Gly Cys Ser Phe Val Gln Leu Asn Ser Ile Cys Gly
1 5 10

<210> 91
<211> 12
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<220>
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<400> 91
Gly Cys Pro Ala Trp Tyr Leu Glu Tyr Met Cys Gly
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<210> 92
<211> 12
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<220>
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<400> 92
Gly Cys Pro Asp Trp Tyr Leu Glu Tyr Met Cys Gly
1 5 10

<210> 93
<211> 12
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<220>
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Gly Cys Lys Tyr Trp Gln Trp Phe Asp Lys Cys Gly
1 5 10

<210> 94
<211> 12
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<220>
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Gly Cys Asp His Trp Met Trp Tyr Asp Lys Cys Gly
1 5 10

<210> 95
<211> 9
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<213> Artificial Sequence

<220>
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Ser Asn Glu Ser Gly Trp Val Trp Leu
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<210> 96
<211> 9
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Gln Ser Asn Ser Gly Trp Val Trp Val
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<210> 97
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1 5

<210> 98
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1 5

<210> 99
<211> 9
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<400> 99
Tyr Asp Asn Ser Gly Trp Val Trp His
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<210> 100
<211> 10
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<210> 101
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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys
1 5 10 15

<210> 102
<211> 11
<212> PRT
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Cys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
1 5 10

<210> 103
<211> 18
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
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Lys Lys

<210> 104

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 104

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Cys
1 5 10 15

<210> 105

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 105

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys
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<210> 106

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 106

Lys Lys Lys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
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<210> 107

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
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Lys Lys

<210> 108
<211> 16
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<220>
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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Cys Lys Lys Lys
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<210> 109
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<212> PRT
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<220>
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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Gly Gly
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Cys Lys Lys Lys
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<210> 110
<211> 10
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<400> 110
Ser Asn Glu Ser Gly Trp Val Trp Leu Pro
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<210> 111
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<210> 112
<211> 10
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Ser Arg Thr Glu Ser Gly Trp Val Trp Thr
1 5 10

<210> 113
<211> 10
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<400> 113
Gln Arg Ala Asn Ser Gly Trp Val Trp Val
1 5 10

<210> 114
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 114
Asp Tyr Asp Asn Ser Gly Trp Val Trp His
1 5 10

<210> 115
<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 115

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Lys
1 5 10 15

<210> 116

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 116

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Gly Ser Lys
1 5 10 15

Lys Lys

<210> 117

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 117

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser
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<210> 118

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 118

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Gly Ser Glu
1 5 10 15

Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Gly Ser
20 25 30

<210> 119
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<400> 119
Arg Tyr Gln Ser Phe Glu Leu Ser Asp Ser Gly Trp Val Trp Val Pro
1 5 10 15

Val Ala Arg His
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<210> 120
<211> 6
<212> PRT
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<220>
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<400> 120
Glu Arg Asp Trp Phe Cys
1 5

<210> 121
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 121
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<210> 122
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 122
Glu Arg Leu Trp Phe Cys
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<210> 123
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 123
Glu Arg Ser Tyr Phe Cys
1 5

<210> 124
<211> 6
<212> PRT
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<220>
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Glu Arg Gly Trp Phe Cys
1 5

<210> 125
<211> 6
<212> PRT
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<220>
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1 5

<210> 126
<211> 6
<212> PRT
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<220>
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Glu Arg Ala Trp Phe Cys
1 5

<210> 127

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 127

Glu Arg Leu Tyr Phe Cys
1 5

<210> 128

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 128

Glu Arg Tyr Phe Met Cys
1 5

<210> 129

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 129

Glu Arg Leu Phe Leu Cys
1 5

<210> 130

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 130
Glu Arg Ala Leu Met Cys
1 5

<210> 131
<211> 6
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<220>
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<400> 131
Glu Arg Asp Val Met Cys
1 5

<210> 132
<211> 6
<212> PRT
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<220>
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<400> 132
Glu Arg Lys Trp Phe Cys
1 5

<210> 133
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<212> PRT
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<220>
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<400> 133
Glu Thr Trp Gly Glu Arg Asp Trp Phe Cys
1 5 10

<210> 134
<211> 10
<212> PRT
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<220>
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<400> 134
Glu Thr Trp Gly Glu Arg Asp Trp Gly Cys
1 5 10

<210> 135
<211> 10
<212> PRT
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<400> 135
Ser Thr Ala Glu Arg Leu Trp Phe Cys Gly
1 5 10

<210> 136
<211> 10
<212> PRT
<213> Artificial Sequence

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<400> 136
Tyr Glu Thr Ala Glu Arg Ser Tyr Phe Cys
1 5 10

<210> 137
<211> 10
<212> PRT
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<220>
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<400> 137
Ala Asp Asn Ala Glu Arg Gly Trp Phe Cys
1 5 10

<210> 138
<211> 10
<212> PRT
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<220>
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<400> 138
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 139
<211> 10
<212> PRT
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<220>
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<400> 139
Ser Thr Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 140
<211> 10
<212> PRT
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<220>
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<400> 140
Ala Ser Trp Ser Glu Arg Gly Trp Phe Cys
1 5 10

<210> 141
<211> 10
<212> PRT
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<220>
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<400> 141
Glu Leu Ser Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 142
<211> 10
<212> PRT
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<400> 142
Asp Met Gln Gly Glu Arg Gly Trp Phe Cys
1 5 10

<210> 143
<211> 10
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<400> 143
Ser Ser Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 144
<211> 10
<212> PRT
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<400> 144
Gly Asn Met Arg Glu Arg Leu Tyr Phe Cys
1 5 10

<210> 145
<211> 10
<212> PRT
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<220>
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<400> 145
Gln Pro Asn Arg Glu Arg Tyr Phe Met Cys
1 5 10

<210> 146
<211> 10
<212> PRT
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<220>
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<400> 146

Ser Val Thr Arg Glu Arg Leu Phe Leu Cys
1 5 10

<210> 147

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 147

Ile Pro Leu Ser Glu Arg Ala Leu Met Cys Ser Ser Trp Asn Cys
1 5 10 15

<210> 148

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 148

Trp Ala Arg Ser Glu Arg Asp Val Met Cys Leu Ser Tyr Val Cys
1 5 10 15

<210> 149

<211> 11

<212> PRT

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<400> 149

Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly
1 5 10

<210> 150

<211> 15

<212> PRT

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<400> 150
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly Gly Gly Gly Ser
1 5 10 15

<210> 151
<211> 19
<212> PRT
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<220>
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<400> 151
Asn Leu Glu Glu Ala Leu Ala Gln Glu Arg Leu Trp Phe Cys Arg Ser
1 5 10 15
Gly Asn Cys

<210> 152
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 152
Asn Leu Glu Ser Tyr Glu Met Glu Glu Arg Lys Trp Phe Cys Lys Met
1 5 10 15

Phe Ser Cys

<210> 153
<211> 9
<212> PRT
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<220>
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<400> 153
Asp Met Val Tyr Ala Tyr Pro Pro Trp
1 5

<210> 154
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 154
Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5

<210> 155
<211> 10
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<220>
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peptide

<400> 155
Asp Met Val Tyr Ala Tyr Pro Pro Trp Ser
1 5 10

<210> 156
<211> 10
<212> PRT
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<220>
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peptide

<400> 156
Asp Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5 10

<210> 157
<211> 12
<212> PRT
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<220>
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peptide

<400> 157
Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
1 5 10

<210> 158
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<212> PRT
<213> Artificial Sequence

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<400> 158
Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 159
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<213> Artificial Sequence

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<400> 159
Cys Gly Glu Arg Leu Ala Glu Cys Ala Arg Leu Cys
1 5 10

<210> 160
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<213> Artificial Sequence

<220>
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<400> 160
Cys Glu Ser Arg Leu Arg Glu Cys Ser Met Leu Cys
1 5 10

<210> 161
<211> 12
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<220>
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<400> 161
Cys Glu Ala Arg Leu Ser Glu Cys Ser Arg Ile Cys
1 5 10

<210> 162
<211> 12
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<400> 162
Cys Pro Ala Arg Leu Leu Glu Cys Ser Arg Met Cys
1 5 10

<210> 163
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<400> 163
Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
1 5 10

<210> 164
<211> 12
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<400> 164
Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys
1 5 10

<210> 165
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<400> 165
Cys Asn Asp Gln Phe Arg Thr Cys Val Asp Val Cys
1 5 10

<210> 166
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<400> 166
Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys
1 5 10

<210> 167
<211> 12
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<220>
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<400> 167
Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys
1 5 10

<210> 168
<211> 12
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<400> 168
Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys
1 5 10

<210> 169
<211> 12
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<400> 169
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys
1 5 10

<210> 170
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<400> 170
Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 171
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<220>
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<400> 171
Cys Leu Ala Arg Leu Glu Glu Cys Ser Arg Phe Cys
1 5 10

<210> 172
<211> 12
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<400> 172
Cys His Asn Ser Ser Pro Met Val Gly Val Thr Cys
1 5 10

<210> 173
<211> 12
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<400> 173
Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 174
<211> 12
<212> PRT
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<400> 174
Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys
1 5 10

<210> 175
<211> 12
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<400> 175
Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys
1 5 10

<210> 176
<211> 12
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<400> 176
Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys
1 5 10

<210> 177
<211> 12
<212> PRT
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<400> 177
Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys
1 5 10

<210> 178
<211> 12
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<400> 178
Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys.
1 5 10

<210> 179
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 179
Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 180
<211> 12
<212> PRT
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<400> 180
Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys
1 5 10

<210> 181
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<400> 181
Cys Tyr Val Ser Pro Ser Thr Gly Leu Tyr Ser Cys
1 5 10

<210> 182
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<400> 182
Cys Glu Ala Arg Leu Val Glu Cys Ser Arg Leu Cys
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<210> 183
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<400> 183
Cys Glu Ser Arg Leu Ser Glu Cys Ser Arg Met Cys
1 5 10

<210> 184
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Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10

<210> 185
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Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
1 5 10

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 186

Cys Leu Glu Arg Leu Glu Glu Cys Ser Arg Phe Cys
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<210> 187

<211> 14

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 187

Gly Gly Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
1 5 10

<210> 188

<211> 14

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 188

Gly Gly Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 189

<211> 15

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 189

Glu Trp Leu Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
1 5 10 15

<210> 190

<211> 18

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 190

Tyr His Pro Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys Cys
1 5 10 15

Arg Ser

<210> 191

<211> 18

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 191

Trp Leu Leu Cys Asn Asp Gln Phe Arg Thr Cys Val Asp Val Cys Asp
1 5 10 15

Asn Val

<210> 192

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 192

Ile Ala Glu Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys Leu
1 5 10 15

Ala Ala

<210> 193

<211> 18

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 193

Thr Trp Tyr Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys Leu
1 5 10 15

Glu Leu

<210> 194
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 194
Gln Leu Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 195
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 195
Gln Phe Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 196
<211> 13
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<220>
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<400> 196
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys Ser
1 5 10

<210> 197
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 197

Cys Gly Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 198

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 198

Cys Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
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<210> 199

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 199

Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
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<210> 200

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 200

Gly Thr Ser Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys Val
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Leu Pro

<210> 201

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
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<400> 201
Arg Met Asp Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys Ala
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Tyr Ala

<210> 202
<211> 18
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<220>
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<400> 202
Gly Val Val Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys Ser
1 5 10 15

Met Arg

<210> 203
<211> 18
<212> PRT
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<220>
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<400> 203
Ile Asp Val Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys Leu
1 5 10 15

Arg Ile

<210> 204
<211> 18
<212> PRT
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<220>
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<400> 204
Asn Val Leu Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys Leu
1 5 10 15
Ser Ser

<210> 205
<211> 14
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 205
Cys Gln Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 206
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 206
Phe Cys Ser Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys Ala
1 5 10 15

Ile Trp

<210> 207
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 207
Glu Glu Val Cys Tyr Val Ser Pro Ser Thr Gly Leu Tyr Ser Cys Tyr
1 5 10 15

Asp Gln

<210> 208
<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 208

Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 209

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 209

Gly Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala
1 5 10 15

Arg Arg Cys Asn

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<210> 210

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 210

Gly Arg Thr Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln
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Glu Cys Ala Arg Arg Cys Asn

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<210> 211

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 211
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1 5 10 15

Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys Asn
20 25

<210> 212
<211> 17
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 212
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn

<210> 213
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 213
Lys Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg
1 5 10 15

Cys Asn

<210> 214
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 214
Glu Glu Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 215
<211> 9

<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 215
Glu Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 216
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 216
Cys Met Lys Leu Met Glu Cys Ala Arg
1 5

<210> 217
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 217
Glu Leu Arg Leu Arg Glu Cys Ala His
1 5

<210> 218
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 218
Glu Ala Lys Leu His Glu Cys Ala Arg
1 5

<210> 219
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 219
Glu Leu Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 220
<211> 9
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<220>
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<400> 220
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1 5

<210> 221
<211> 9
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<220>
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<400> 221
Glu Ala Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 222
<211> 9
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<400> 222
Glu Leu Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 223
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<400> 223
Glu Ser Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 224
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<220>
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<400> 224
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1 5

<210> 225
<211> 9
<212> PRT
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<220>
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<400> 225
Glu Ser Arg Leu Arg Glu Cys Ala Arg
1 5

<210> 226
<211> 9
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<400> 226
Glu Ala Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 227
<211> 9
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<213> Artificial Sequence

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<400> 227
Gln Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 228
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<213> Artificial Sequence

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<400> 228
Gln Leu Arg Leu Glu Glu Cys Ala Arg
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<210> 229
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<400> 229
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<210> 230
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<400> 230
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<210> 231
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1 5

<210> 232
<211> 9
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<400> 232
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<210> 233
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<400> 233
Val Ala Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 234
<211> 9
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<400> 234
Glu Leu Lys Leu Asp Glu Cys Ala Arg
1 5

<210> 235
<211> 9
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<213> Artificial Sequence

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<400> 235
Glu Trp Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 236
<211> 9
<212> PRT
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<220>
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<400> 236
Glu Ala Lys Leu Ser Glu Cys Ala Arg
1 5

<210> 237
<211> 9
<212> PRT
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<220>
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<400> 237
Glu Ala Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 238
<211> 9
<212> PRT
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<220>
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<400> 238
Glu Leu Lys Leu Leu Glu Cys Ala Arg
1 5

<210> 239
<211> 9
<212> PRT
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<400> 239
Glu Leu Arg Leu Gln Glu Cys Gly Arg
1 5

<210> 240
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<400> 240
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<210> 241
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1 5

<210> 242
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<210> 243
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<400> 243
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1 5

<210> 244
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<210> 245
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<212> PRT
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<400> 245
Glu Leu Lys Leu Gln Glu Cys Ala Arg
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<210> 246
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<400> 246
Tyr Ser Arg Leu Glu Glu Cys Gly Arg
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<210> 247
<211> 9
<212> PRT
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<400> 247
Glu Leu Arg Leu Arg Glu Cys Ala Leu
1 5

<210> 248
<211> 9
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<400> 248
Glu Ala Arg Leu Leu Glu Cys Ala Arg
1 5

<210> 249
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<220>
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<400> 249
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1 5

<210> 250
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<400> 250
Val Leu Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 251
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<400> 251
Glu Ser Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 252
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<220>
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<400> 252
Glu Ser Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 253
<211> 9
<212> PRT
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<220>
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<400> 253
Glu Tyr Lys Leu Gly Glu Cys Ala Arg
1 5

<210> 254
<211> 9
<212> PRT
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<220>
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<400> 254
Glu Ser Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 255
<211> 9
<212> PRT
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<400> 255
Gln Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 256
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<400> 256
Glu Leu Lys Lys Gln Glu Cys Ala Arg
1 5

<210> 257
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<400> 257
Glu Ser Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 258
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<400> 258
Glu Ala Arg Leu Glu Glu Cys Gly Arg
1 5

<210> 259
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<400> 259
Glu Ser Arg Leu Ala Glu Cys Gly Arg
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<210> 260
<211> 9
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<220>
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<400> 260
Glu Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 261
<211> 9
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<220>
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<400> 261
Glu Ala Arg Leu Ser Glu Cys Gly Arg
1 5

<210> 262
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 262
Ala Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 263
<211> 9
<212> PRT
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<400> 263
Glu Trp Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 264
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<400> 264
Glu Ser Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 265
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<212> PRT
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<400> 265
Asp Val Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 266
<211> 9
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<213> Artificial Sequence

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<400> 266
Glu Leu Gln Leu Glu Glu Cys Ala Arg
1 5

<210> 267
<211> 9
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<400> 267
Glu Tyr Lys Leu Ala Ser Cys Ala Arg
1 5

<210> 268
<211> 16
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<220>
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<400> 268
Arg Leu Ser Ile Cys Glu Glu Lys Leu Arg Glu Cys Ala Arg Gly Cys
1 5 10 15

<210> 269
<211> 16
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<220>
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<400> 269
Pro Leu Thr Thr Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 270
<211> 14
<212> PRT
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<220>
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<400> 270
Leu Ala Leu Cys Met Lys Leu Met Glu Cys Ala Arg Arg Tyr
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<210> 271
<211> 16
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<213> Artificial Sequence

<220>
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<400> 271
Glu Leu Val Met Cys Glu Leu Arg Leu Arg Glu Cys Ala His Arg Ala
1 5 10 15

<210> 272
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 272
Pro Leu Ala Arg Cys Glu Ala Lys Leu His Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 273
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 273
Leu Leu Ser Val Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Lys
1 5 10 15

<210> 274
<211> 16
<212> PRT
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<220>
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<400> 274
Arg Leu Glu Trp Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

<210> 275
<211> 16
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 275

Arg Leu Arg Val Val Glu Ala Lys Leu Arg Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 276

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 276

Cys Val Ala His Leu Glu Leu Arg Leu Ala Glu Cys Ala Arg Gln Ile
1 5 10 15

<210> 277

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 277

His Leu Ala Arg Cys Glu Ser Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 278

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 278

Arg Leu Ala Leu Leu Glu Ala Lys Leu Val Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 279

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 279

Asp Leu Phe Ser Leu Glu Ser Arg Leu Arg Glu Cys Ala Arg Arg Val
1 5 10 15

<210> 280

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 280

Ala Val Pro Val Leu Glu Ala Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 281

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 281

Tyr Leu Gln Gln Leu Gln Trp Arg Leu Glu Glu Cys Ala Arg Gly Met
1 5 10 15

<210> 282

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 282

Tyr Leu Glu Leu Cys Gln Leu Arg Leu Glu Glu Cys Ala Arg Gln Phe
1 5 10 15

Asn

<210> 283

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 283
Glu Leu His Ile Cys Glu Leu Arg Leu Glu Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 284
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 284
Arg Val Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
1 5 10 15

<210> 285
<211> 16
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 285
Tyr Leu Glu Val Leu Glu Ser Arg Leu Ala Glu Cys Ala Arg Trp Lys
1 5 10 15

<210> 286
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 286
Glu Ala Lys Leu Leu Glu Cys Ala Arg Ala Arg
1 5 10

<210> 287
<211> 18
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

Glu Leu Ser Leu Cys Glu Ala Arg Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 288

<211> 18

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

Glu Leu Ser Leu Cys Glu Ala Lys Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 289

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Ala Leu Trp Gln Cys Val Ala Arg Leu Glu Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 290

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 290

Cys Leu Lys Ser Cys Glu Leu Lys Leu Asp Glu Cys Ala Arg Arg Met
1 5 10 15

<210> 291

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 291

Ala Leu Gln Thr Cys Glu Trp Arg Leu Gln Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 292

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 292

Tyr Ile Ser Gln Cys Glu Ala Lys Leu Ala Glu Cys Ala Arg Leu Tyr
1 5 10 15

<210> 293

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 293

Glu Leu Ser Ser Cys Glu Ala Lys Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 294

<211> 16

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 294

Glu Leu Ser Ser Cys Glu Ala Arg Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 295

<211> 16

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

Gln Leu Leu Gln Cys Glu Leu Lys Leu Leu Glu Cys Ala Arg Gln Gly
1 5 10 15

<210> 296

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

Glu Leu Leu Arg Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gly Cys
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<210> 297

<211> 17

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Gln Leu Arg Gln Cys Glu Leu Arg Leu Gln Glu Cys Gly Arg His Gly
1 5 10 15

Asn

<210> 298

<211> 16

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Pro Leu Thr Ser Cys Glu Gln Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 299

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Leu Leu Gly Met Cys Glu Leu Arg Leu Gln Glu Cys Ala Arg Ala Lys
1 5 10 15

<210> 300

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<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Glu Leu Ser Arg Cys Glu Leu Lys Leu Glu Glu Cys Ala Arg Gly Met
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<210> 301

<211> 16

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 301

Asp Cys Arg Pro Cys Glu Ser Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 302

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 302

Arg Leu Ser Val Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 303

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 303

Pro Leu Lys Met Cys Glu Ala Thr Val Gln Glu Cys Ala Arg Leu Ile
1 5 10 15

<210> 304

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 304

Leu Leu Leu Phe Cys Glu Ala Arg Leu Ser Glu Cys Ala Arg His Val
1 5 10 15

<210> 305

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 305

Ser Leu Ser Met Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Leu Leu
1 5 10 15

<210> 306

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 306

Pro Leu Phe Ser Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 307
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<220>
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<400> 307
Ser Leu Glu Arg Cys Tyr Ser Arg Leu Glu Glu Cys Gly Arg Arg Ile
1 5 10 15

<210> 308
<211> 17
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<213> Artificial Sequence

<220>
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<400> 308
Pro Leu Thr Ser Cys Glu Leu Arg Leu Arg Glu Cys Ala Leu Arg Ser
1 5 10 15

Asn

<210> 309
<211> 16
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<213> Artificial Sequence

<220>
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<400> 309
Lys Leu Ala Ala Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 310
<211> 16
<212> PRT
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<220>
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<400> 310
Lys Leu Ala Ala Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 311

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 311

Ala Leu Thr Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ile
1 5 10 15

<210> 312

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 312

Leu Leu Gln Gln Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Ile
1 5 10 15

<210> 313

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 313

Gln Leu Trp Gln Cys Glu Ala Arg Leu Leu Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 314

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 314

Arg Leu Arg Leu Cys Glu Ser Arg Leu Leu Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 315

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 315

Gln Leu Glu Thr Cys Val Leu Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 316

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 316

Ala Leu Ser Gln Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Ser Val
1 5 10 15

Thr Lys

<210> 317

<211> 11

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 317

Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10

<210> 318

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 318
Ala Leu Ser Arg Cys Glu Ser Lys Leu Ala Glu Cys Ala Arg Arg Gln
1 5 10 15

<210> 319
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<400> 319
Leu Met Ser Thr Cys Glu Ser Lys Leu Arg Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 320
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<400> 320
Ser Leu Gln Arg Cys Glu Tyr Lys Leu Gly Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 321
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<400> 321
Arg Leu Glu Leu Leu Glu Ser Arg Leu Gln Glu Cys Ala Arg Gln Leu
1 5 10 15

Asn

<210> 322
<211> 17
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<220>
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<400> 322
Gln Met Glu Trp Cys Gln Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 323
<211> 17
<212> PRT
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<400> 323
Pro Leu Phe Ser Cys Glu Leu Lys Lys Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 324
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<400> 324
Leu Leu Asp Lys Cys Glu Ser Arg Leu Ser Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 325
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<400> 325
Leu Leu Ala Arg Cys Glu Ala Arg Leu Glu Glu Cys Gly Arg Gln Cys
1 5 10 15

<210> 326
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<400> 326

Asp Leu Leu Tyr Cys Glu Ser Arg Leu Ala Glu Cys Gly Arg Met
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<211> 16

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<213> Artificial Sequence

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<400> 327

Ala Leu Gln Met Cys Glu Trp Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 328

<211> 16

<212> PRT

<213> Artificial Sequence

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<400> 328

Leu Leu Thr Met Cys Glu Ala Arg Leu Ser Glu Cys Gly Arg Arg Leu
1 5 10 15

<210> 329

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 329

Ala Leu Trp Arg Cys Glu Ser Arg Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 330

<211> 16

<212> PRT

<213> Artificial Sequence

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<400> 330

Leu Leu Ala Thr Cys Ala Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 331

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 331

Leu Gln Thr Cys Glu Trp Lys Leu Ala Glu Cys Ala Arg Ser Asn
1 5 10 15

<210> 332

<211> 16

<212> PRT

<213> Artificial Sequence

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<400> 332

Pro Leu Arg Ser Cys Glu Ser Lys Leu Glu Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 333

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 333

Cys Leu Arg Ala Leu Asp Val Lys Leu Ala Glu Cys Ala Arg His Leu
1 5 10 15

<210> 334

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
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<400> 334
Arg Leu Lys Thr Leu Glu Leu Gln Leu Glu Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 335
<211> 16
<212> PRT
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<220>
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<400> 335
Lys Leu Arg Asp Val Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 336
<211> 16
<212> PRT
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<220>
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<400> 336
Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Cys Ala Arg Ser Leu
1 5 10 15

<210> 337
<211> 16
<212> PRT
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<400> 337
Arg Leu Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
1 5 10 15

<210> 338
<211> 17
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<220>
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<400> 338
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 339
<211> 18
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<400> 339
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Ala
1 5 10 15

Asn Gly

<210> 340
<211> 18
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<220>
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<400> 340
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn Gly

<210> 341
<211> 16
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<220>
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<400> 341
Lys Gln Arg Glu Leu Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 342
<211> 17
<212> PRT
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<220>
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<400> 342
Gln Met Gln Glu Trp Cys Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 343
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 343
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Ala
1 5 10 15

Asn

<210> 344
<211> 10
<212> PRT
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<400> 344
Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 345
<211> 10
<212> PRT
<213> Artificial Sequence

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<400> 345
Ala Glu Arg Tyr Ala Glu Glu Arg Glu Gly
1 5 10

<210> 346
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<212> PRT
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<400> 346
Ala Glu Arg Met Ala Glu Glu Arg Arg Trp
1 5 10

<210> 347
<211> 10
<212> PRT
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<400> 347
Ala Glu Arg Lys Ala Glu Glu Arg Arg Arg
1 5 10

<210> 348
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<400> 348
Ala His Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 349
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<212> PRT
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<400> 349
Ala Glu Arg Lys Ser Glu Asp Trp Arg Trp
1 5 10

<210> 350
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<400> 350
Ala Glu Arg Lys Ala Glu Glu Lys Arg Arg
1 5 10

<210> 351
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<400> 351
Ala Glu Arg Gln Ala Glu Thr Arg Arg Trp
1 5 10

<210> 352
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<400> 352
Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 353
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<400> 353

Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp
1 5 10

<210> 354

<211> 10

<212> PRT

<213> Artificial Sequence

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peptide

<400> 354

Ala Glu Arg Arg Ala Glu Glu Arg Arg Trp
1 5 10

<210> 355

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 355

Ala Glu Arg Asp Ala Glu Gln Arg Arg Trp
1 5 10

<210> 356

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 356

Ala Glu Arg Ile Ala Glu Glu Arg Arg Trp
1 5 10

<210> 357

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 357
Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp
1 5 10

<210> 358
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<400> 358
Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp
1 5 10

<210> 359
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<212> PRT
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<400> 359
Ala Glu Arg Lys Ala Glu Glu Ser Arg Trp
1 5 10

<210> 360
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<400> 360
Glu Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 361
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<400> 361
Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 362
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<400> 362
Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp
1 5 10

<210> 363
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<400> 363
Ala Asp Gly Met Pro Glu Glu Arg Arg Trp
1 5 10

<210> 364
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<400> 364
Ala Asp Gly Glu Ala Glu Lys Arg Arg Trp
1 5 10

<210> 365
<211> 10
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<400> 365
Ala Asp Gly Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 366
<211> 10
<212> PRT
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<400> 366
Ala Asp Gly Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 367
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<400> 367
Ala Glu Gly Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 368
<211> 10
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<213> Artificial Sequence

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<400> 368
Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 369
<211> 10
<212> PRT
<213> Artificial Sequence

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<400> 369
Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp
1 5 10

<210> 370
<211> 10
<212> PRT
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<400> 370
Ala Asp Gly Glu Ala Glu Ala Arg Arg Trp
1 5 10

<210> 371
<211> 10
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<400> 371
Ala Asp Gly Arg Ala Glu Glu Ala Arg Trp
1 5 10

<210> 372
<211> 10
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<400> 372
Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp
1 5 10

<210> 373
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<400> 373
Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 374
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 374
Ala Glu Arg Lys Ala Glu Glu Gln Arg Trp
1 5 10

<210> 375
<211> 10
<212> PRT
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<220>
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<400> 375
Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp
1 5 10

<210> 376
<211> 10
<212> PRT
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<220>
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<400> 376
Ala Glu Arg Glu Ala Glu Lys Leu Arg Trp
1 5 10

<210> 377
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 377
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr His
1 5 10 15
Gly Arg Glu

<210> 378
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 378
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr His
1 5 10 15
Gly Arg Glu Lys
20

<210> 379
<211> 22
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<220>
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<400> 379
Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe
1 5 10 15
Asn Thr His Gly Arg Glu
20

<210> 380
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<400> 380
Cys Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr
1 5 10 15
His Gly Arg Glu
20

<210> 381
<211> 21
<212> PRT
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<220>
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<400> 381
Cys Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr
1 5 10 15

His Gly Arg Glu Lys
20

<210> 382
<211> 19
<212> PRT
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<220>
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<400> 382
Met Leu Ala Glu Arg Tyr Ala Glu Glu Arg Glu Gly Phe Asn Met Gln
1 5 10 15

Trp Arg Glu

<210> 383
<211> 17
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 383
Met Leu Ala Glu Arg Met Ala Glu Glu Arg Arg Trp Phe Arg Arg Met
1 5 10 15

Gly

<210> 384
<211> 19
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 384

Ile Val Ala Glu Arg Lys Ala Glu Glu Arg Arg Arg Arg Leu Asn Thr Glu
1 5 10 15

Gly His Glu

<210> 385

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 385

Ile Leu Ala His Arg Asn Ala Glu Glu Arg Arg Trp Phe Gln Lys His
1 5 10 15

Gly Arg

<210> 386

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 386

Met Leu Ala Glu Arg Lys Ser Glu Asp Trp Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 387

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 387

Met Leu Ala Glu Arg Lys Ala Glu Glu Lys Arg Arg Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 388
 <211> 21
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 <213> Artificial Sequence

<220>
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<400> 388
 Ile Leu Ala Glu Arg Gln Ala Glu Thr Arg Arg Trp Met Arg Asn Ala
 1 5 10 15

Gly Ser Val Thr Lys
 20

<210> 389
 <211> 18
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<220>
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<400> 389
 Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Leu Lys Arg Gln
 1 5 10 15

Cys Gly

<210> 390
 <211> 19
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<220>
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<400> 390
 Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Met His
 1 5 10 15

Gly Gly Glu

<210> 391
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<212> PRT
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<220>
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<400> 391

Met Leu Ala Glu Arg Arg Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Gly Asp

<210> 392
<211> 19
<212> PRT
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<220>
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<400> 392

Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Asp

<210> 393
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 393

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 394
<211> 19
<212> PRT
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<220>
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<400> 394
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Asn Gln
1 5 10 15
Gly Arg Glu

<210> 395
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 395
Met Pro Ala Glu Arg Asp Ala Glu Gln Arg Arg Trp Leu Lys Thr His
1 5 10 15
Gly Arg Glu

<210> 396
<211> 18
<212> PRT
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<220>
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<400> 396
Ile Leu Ala Glu Arg Ile Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Arg

<210> 397
<211> 19
<212> PRT
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<220>
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<400> 397
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15
Gly Arg Glu

<210> 398

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 398

Ile Leu Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 399

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 399

Leu Leu Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 400

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 400

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Glu

<210> 401

<211> 12

<212> PRT

<213> Artificial Sequence

<220>
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<400> 401
Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 402
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 402
Met Phe Ala Glu Arg Lys Ala Glu Glu Ser Arg Trp Leu Gln Ser Gln
1 5 10 15

Gly Arg Glu

<210> 403
<211> 18
<212> PRT
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<220>
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<400> 403
Met Leu Glu Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg

<210> 404
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 404
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Met Gln
1 5 10 15

Gly Arg Glu

<210> 405

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 405

Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Phe Tyr Thr His
1 5 10 15

Gly Arg Glu

<210> 406

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 406

Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Leu Asp

<210> 407

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 407

Met Ile Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 408

<211> 19

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 408
Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Asp

<210> 409
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 409
Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 410
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 410
Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 411
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 411
Ile Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 412
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 412
Met Leu Ala Asp Gly Met Pro Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Asp

<210> 413
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 413
Met Leu Ala Asp Gly Glu Ala Glu Lys Arg Arg Trp Leu Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 414
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 414
Met Leu Ala Asp Gly Asn Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly Arg Asp

<210> 415
<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 415

Met Leu Ala Asp Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 416

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 416

Met Leu Ala Glu Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 417

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 417

Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 418

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 418

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Ser Ala His
1 5 10 15

Val Arg Glu

<210> 419

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 419

Leu Leu Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp Tyr Lys Thr His
1 5 10 15

Ala Arg Glu

<210> 420

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 420

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly His Asp

<210> 421

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 421

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Ser Gln
1 5 10 15

Cys Leu Glu

<210> 422

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 422

Leu Leu Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 423

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 423

Met Leu Ala Asp Gly Glu Ala Glu Ala Arg Arg Trp Phe Asn Met His
1 5 10 15

Gly Arg Glu

<210> 424

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 424

Met Leu Ala Asp Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 425

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 425

Met Leu Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 426

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 426

Met Leu Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 427

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 427

Met Met Ala Glu Arg Lys Ala Glu Glu Gln Arg Trp Phe Asp Ile His
1 5 10 15

Gly Arg Asp

<210> 428

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 428

Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu

<210> 429

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 429

Met	Leu	Ala	Glu	Arg	Gln	Ala	Glu	Glu	Arg	Arg	Trp	Leu	Lys	Ser	Gln
1															
														15	

Arg Gly Glu

<210> 430

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 430

Leu	Leu	Ala	Glu	Arg	Lys	Ala	Glu	Glu	Arg	Arg	Trp	Phe	Ala	Thr	His
1															
														15	

Gly Arg Asp

<210> 431

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 431

Met	Leu	Ala	Glu	Arg	Glu	Ala	Glu	Lys	Leu	Arg	Trp	Leu	Lys	Ser	Gln
1															
														15	

Glu Arg Ala

<210> 432

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 432

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Gly Glu

<210> 433

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 433

Cys Thr Trp Thr Asp Leu Glu Ser Val Tyr
1 5 10

<210> 434

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 434

His Thr Thr Asn Glu Gln Phe Phe Met Cys
1 5 10

<210> 435

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 435

Asp Thr Trp Leu Glu Leu Glu Ser Arg Tyr
1 5 10

<210> 436
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 436
His Asn Ser Ser Pro Met Val Gly Val Thr
1 5 10

<210> 437
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 437
Asp Trp Gln Lys Thr Ile Pro Ala Tyr Trp
1 5 10

<210> 438
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 438
Arg Trp Gly Arg Glu Gly Leu Val Ala Ala Leu Leu
1 5 10

<210> 439
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 439
Trp Ser Gly Thr Arg Val Trp Arg Cys Val Val Thr
1 5 10

<210> 440
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 440
Met Ser Leu Leu Ser Tyr Leu Arg Ser
1 5

<210> 441
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 441
Leu Asp Leu Leu Ala Ile
1 5

<210> 442
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 442
Arg Ile Tyr Gly Val Lys
1 5

<210> 443
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 443
Met Ile Trp His Met Phe Met Ser Leu Leu Phe
1 5 10

<210> 444
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 444
Phe Phe Trp Ala Ser Trp Met His Leu Leu Trp
1 5 10

<210> 445
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 445
Phe Asp Asp Cys Trp Arg Glu Arg Glu Gln Phe Leu Phe Gln Ala Leu
1 5 10 15

<210> 446
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 446
Cys Gly Arg Ala Ser Glu Cys Phe Arg Leu Leu Glu Met
1 5 10

<210> 447
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 447
Arg Glu Cys Phe Gln Met Leu Glu Arg
1 5

<210> 448
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 448

Cys Ser Ile Arg Trp Asp Phe Val Pro Gly Tyr Gly Leu Cys
1 5 10

<210> 449

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Trp Met Gln Cys Trp Asp Ser Leu Ser Leu Cys Tyr Asp Met
1 5 10

<210> 450

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 450

Ala Leu Leu Met Cys Glu Ser Lys Leu Ala Glu Cys Ala Arg Ala Arg
1 5 10 15

<210> 451

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 451

Leu Ala His Cys Lys Lys Arg Lys Glu Glu Cys Ala Ala Gly
1 5 10

<210> 452

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 452

Ser Ile Asp Gly Val Tyr Leu Arg Thr Ser Arg Thr
1 5 10

<210> 453

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 453

Ser Ile Asp Gly Val Tyr Leu Arg Thr Arg Ser Arg Thr Arg Tyr
1 5 10 15

<210> 454

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 454

Val Arg Trp Leu Arg Gly Ser Thr Leu Arg Gly Leu Arg Asp Arg
1 5 10 15

<210> 455

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 455

Asp Arg Gly Gly Gly Thr Val Gly Val Tyr Trp Trp Glu Ser Tyr
1 5 10 15

<210> 456

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 456

Val Trp Gly Thr Val Gly Thr Trp Leu Glu Tyr
1 5 10

<210> 457

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 457

Leu Met Trp Val Ser Ala Tyr
1 5

<210> 458

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 458

Arg Ala Ser Asp Glu Tyr Gly Ala Leu Val Arg Phe Cys Thr Asn Leu
1 5 10 15

<210> 459

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 459

Asn Tyr Trp Cys Asp Ser Asn Trp Val Cys Glu Ile Ala
1 5 10

<210> 460

<211> 14

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 460
Leu Ala His Cys Leu Leu Arg Leu Glu Glu Cys Ala Ala Gly
1 5 10

<210> 461
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 461
Leu Ala Leu Cys Leu Ala Arg Leu Arg Glu Cys Ala Gly Gly
1 5 10

<210> 462
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 462
Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met
1 5 10

<210> 463
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 463
Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 464
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 464
Lys Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg
1 5 10 15
Cys Asn

<210> 465
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 465
Cys Ser Thr Gly Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15
Arg Trp Leu Leu Thr His Gly Gly Glu
20 25

<210> 466
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 466
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15
Gly Gly Glu Gly Gly
20

<210> 467
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 467
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Lys
20

<210> 468
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 468
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly
20

<210> 469
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 469
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly Lys
20 25

<210> 470
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 470
Glu Ser Gly Trp Val Trp
1 5

<210> 471
<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 471

Asn Ser Gly Trp Val Trp
1 5

<210> 472

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 472

Ser Gly Trp Val Trp
1 5

<210> 473

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 473

Pro Leu Gly Lys Cys Glu Ala Thr Cys Arg Glu Met Ala Arg Tyr Phe
1 5 10 15

Asn

<210> 474

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 474

Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Val Arg Gly Leu Cys
1 5 10 15

Asn

<210> 475

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 475

Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn Gly

<210> 476

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 476

Pro Tyr Met Gly Thr Arg Ser Arg Ala Lys Leu Leu Arg Gln Gln
1 5 10 15

<210> 477

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 477

Arg Asn Ala Gly Glu Arg Arg Trp Phe Lys Thr Gln Gly Trp Tyr
1 5 10 15

<210> 478

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 478

Met Leu Ala Glu Arg Asn Ala Asp Asp Arg Arg Trp Phe Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 479

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 479

Met Met Ala Asp Gly Arg Leu Arg Asn Ser Val Gly Leu Ile Leu Trp
1 5 10 15

Cys Asp

<210> 480

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 480

Met Leu Ala Asp Gly Arg Leu Arg Asn Val Val Gly
1 5 10

<210> 481

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 481

Leu Leu Ala Asp Val Arg Arg Arg Asn Gly Val Gly Leu Leu Arg Met
1 5 10 15

Gly Arg Asp

<210> 482

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 482

Met Leu Ala Asp Gly Arg Leu Arg Asn Phe Gly Gly
1 5 10

<210> 483

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 483

Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 484

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 484

Arg Phe Gly Glu Arg Trp Gly Leu
1 5

<210> 485

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 485

His Trp Leu Trp Trp Gly Trp Asn Phe
1 5

<210> 486

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 486

Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 487

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 487

Ile Leu Ala His Arg Asn Ala Lys Glu Arg Arg Trp Phe Gln Lys His
1 5 10 15

Gly Arg

<210> 488

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 488

Cys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15Arg Trp Leu Leu Thr His Gly Gly Glu Lys
20 25

<210> 489

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 489

Lys Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10 15

Phe Asn Thr His Gly Arg Glu
20

<210> 490
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 490
Lys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg
1 5 10 15

Trp Leu Leu Thr His Gly Gly Glu
20

<210> 491
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 491
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
1 5 10 15
Lys Lys Cys